

CLAIMS

What is claimed is:

1 1. An electronic device, comprising:
2 a hinge;
3 a body case having a first portion and a second
4 portion, the second portion being coupled to the first
5 portion by the hinge and adapted to be vertically rotated;
6 a display mounted over the body case, the display
7 being placed in a first position to prevent the vertical
8 rotation of the second portion, and placed in a second
9 position to enable vertical rotation of the second portion
10 relative to the first portion; and

11 a coupling member coupled to the body case and the
12 display, the coupling member being adapted to horizontally
13 rotate and translate the display between the first
14 position and the second position.

1 2. The electronic device according to claim 1,
2 further comprising a keyboard deployed within the first
3 portion, the keyboard being covered by the display when
4 placed in a TABLET position and being partially covered by
5 the display when the display placed in the first position.

1 3. The electronic device according to claim 2,
2 wherein the display is horizontally translated by the
3 coupling member between the first position and the second
4 position where the keyboard is fully exposed.

1 4. The electronic device according to claim 1,
2 wherein the coupling member includes a shaft, and the
3 second portion of the body case includes a guide in which
4 the shaft is slidably inserted.

1 5. The electronic device according to claim 4,
2 wherein the guide is positioned under an opening in the
3 second portion of the body case that is sized to permit
4 rotation of the shaft only in one rotational direction.

1 6. The electronic device according to claim 1,
2 wherein the first portion of the body case includes a
3 plurality of protrusions extending under a corresponding
4 plurality of recessed areas in the second portion of the
5 body case.

1 7. The electronic device according to claim 6,
2 wherein the plurality of protrusions of the first portion
3 of the body case extends to a latitudinal center of the
4 second portion of the body case.

1 8. The electronic device according to claim 6,
2 wherein the plurality of protrusions of the first portion
3 operate as legs in balancing and maintaining both the
4 display and the second portion at an angled position after
5 vertical rotation.

1 9. The electronic device according to claim 1,
2 wherein a footprint of the display is greater than each
3 footprint of the first portion and the second portion and
4 less than a total footprint of the first portion and the
5 second portion.

1 10. An electronic device implemented with a display
2 and a first body and a second body forming a body case,
3 comprising:
4 a hinge rotationally coupled to the first body and
5 the second body; and

6 a coupling member coupled to the display and the body
7 case, the coupling member comprises
8 a guide having a channel portion, and
9 a shaft guided by the guide, a cross section of
10 the shaft being wider than a width of the channel portion
11 when the display is placed in a first position, and being
12 narrower than the width of the channel portion when the
13 display is placed in a second position; and
14 wherein the display is positioned in (1) the first
15 position to cover the hinge and a substantial portion of
16 the first body and second body, and (2) the second
17 position to partially cover only the second body.

1 11. The electronic device according to claim 10,
2 wherein the shaft is further adapted to support the
3 display in a third position covering the hinge and a
4 portion of the first body and second body being lesser in
5 area than the substantial portion of the first body and
6 second body covered by the display when in the first
7 position.

1 12. The electronic device according to claim 11,
2 wherein the display is horizontally rotated by ninety
3 degrees and translated by shifting the display toward an
4 edge of the second body opposite an edge of the second
5 body coupled to the hinge.

1 13. The electronic device according to claim 12,
2 wherein the display is in the third position after being
3 horizontally rotated to be substantially orthogonal to the
4 first position.

1 14. The electronic device according to claim 10,
2 wherein the shaft includes a fastener element positioned

3 at one end of the shaft and a securing element positioned
4 at the other end of the shaft.

1 15. The electronic device according to claim 10,
2 wherein the hinge vertically rotates the second body and
3 the display after the display has been placed in the
4 second position and maintains the second body and the
5 display at a selected angle.

1 16. An electronic device implemented with a display
2 and a first body and a second body forming a body case,
3 comprising:

4 a hinge rotationally coupled the first body and the
5 second body; and

6 a coupling member coupled to the second body and the
7 display, the coupling member adapted to horizontally
8 rotate and translate the display to enable vertical
9 rotation of both the display and the second body by the
10 hinge.

1 17. The electronic device according to claim 16,
2 wherein the coupling member is adapted to support the
3 display in (1) a first position covering the hinge and
4 more than one-half of a footprint of each of the first
5 body and the second body, and (2) a second position only
6 covering more than one-half of a footprint of the second
7 body.

1 18. The electronic device according to claim 17,
2 wherein the coupling member is further adapted to support
3 the display in a third position covering the hinge and
4 partially covering a portion of the first body and the
5 second body.

1 19. The electronic device according to claim 17,
2 wherein the display is in the first position when the
3 electronic device is in a TABLET position and is in the
4 second position when the electronic device is in a SELF-
5 SUPPORTING position after being horizontally rotated and
6 translated.

1 20. The electronic device according to claim 19,
2 wherein the display is in the second position after the
3 display is horizontally rotated to be substantially
4 orthogonal to an orientation of the display when the
5 electronic device is in the TABLET position.